

Sailors Pre-departure Safety Checklist

Introduction/Background

- Sailing instructors are safety personnel first. The state of boats should be tracked so clubs perform adequate maintenance and can be audited.
- Sometimes things go wrong that could be prevented, clubs need to be accountable and need to be protected when they did their due diligence.
- Suzuki Marine actively seeks opportunities to promote its brand within the sailing community.
- Canadians rank among the world's most avid sailors/boaters, with over 50% engaging in boating activities
- Individuals in the age range of 15 to 44 face the highest risk of incidents related to boating

Scope and Design Requirements

- Develop a safety checklist application to address safety needs in Canadian sailing.

User Interface Efficiency

Solution should allow users to complete safety checks swiftly and easily within two minutes.



Customizability

App able to customize safety checklists for different yacht clubs, enhancing flexibility.



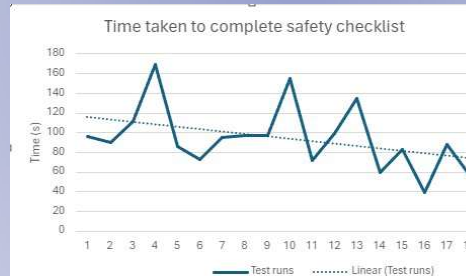
Reliability in Various Conditions

App must stay reliable in all weather for effective safety checks despite environmental changes.



Solution

- Open Template:** Access form via email link.
- Copy Form:** Click top right dots → "Make a copy" → Rename → Click "Make a copy" button.
- Share:** Click "Send" → Enter emails → Send.
- Testing was conducted by us, using data provided by the Royal Canadian Yacht Club



Risk Analysis

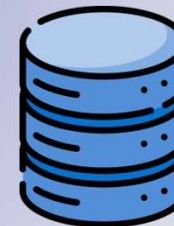
Risks	Likelihood	Severity	ConcernLevel	Checks
Man overboard (Drowning)	Likely	Minor	High	Buoyant Heaving Line
Getting hit in the head with a boom	Unlikely	Moderate	Medium	First Aid Kit
Getting cut	Unlikely	Moderate	Medium	First Aid Kit
Breaking a bone	Rare	Severe	Medium	EAP
Sprain	Rare	Severe	Medium	EAP
Boat rigging failure	Almost Certain	Insignificant	Medium	Knife or wirecutter
Dehydration	Possible	Moderate	High	First Aid Kit
Hyperthermia	Unlikely	Major	Medium	EAP
Hypothermia	Unlikely	Major	Medium	EAP
A boat capsizing	Possible	Insignificant	Low	Bailers
Losing control of a boat	Likely	Moderate	High	Communication Device
Colliding with another boat	Possible	Moderate	High	
Instructor running out of gas	Unlikely	Severe	High	Coachboat Having Gas
Instructor boat failing	Unlikely	Severe	High	Coachboat in working order

- What are the risks for sailors
- What risks are the highest Priority
- How to deal with these risks

Design process



- Investigate app development and cost for the project
- Learning multiple different software to develop early iterations of the model application
- Getting feedback and discussion with people in the industry to see what the needs are



- Database Constructed to handle the manage the data
- Preparing the project for the next steps of app development

Conclusion

It is recommended to measure the value of the solution using the following KPIs:

- Time to Complete per Device
- Abandonment Rate
- Completion Rate
- Quality of completion



It is recommended to work towards an app for mobile device download.

- Conduct another project with computer science department
- Use database to shortcut workload
- Bring insights from this project

